

**WEST**       **Search Results -**

Term	Documents
ALDEHYDE USPT.	48891
ALDEHYDES.USPT.	35976
EDTA.USPT.	37424
EDTAS.USPT.	9
((EDTA SAME ALDEHYDE) AND 11) USPT.	4

**Database:** **Search History****Today's Date: 10/23/2000**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	l11 and (aldehyde same edta)	4	<u>L12</u>
USPT	l10 and preservative	1176	<u>L11</u>
USPT	l9 and l1	5434	<u>L10</u>
USPT	l4 and (dna or rna or nucleic)	7059	<u>L9</u>
USPT	l6 and l1	29	<u>L8</u>
USPT	l6 and cytolog\$5	0	<u>L7</u>
USPT	l5 same preservative	49	<u>L6</u>
USPT	l2 same l3	3575	<u>L5</u>
USPT	l2 and l3	20922	<u>L4</u>
USPT	murexide or "chromotropic acid" or (hydroxy adj napthylazo adj nitronaphthalene) or edta or phenanthroline or thiourea or "nuclease inhibitor" or "protease inhibitor"	56563	<u>L3</u>
USPT	aldehyde or formaldehyde or formalin or glutaraldehyde or "glutaraldehyde bisulfite"	126734	<u>L2</u>
USPT	methanol or ethanol or propanol or butanol or pentanol	256101	<u>L1</u>

**WEST**

Generate Collection

**Search Results - Record(s) 1 through 20 of 29 returned.****[1] 1. Document ID: US 6084046 A**

L8: Entry 1 of 29

File: USPT

Jul 4, 2000

US-PAT-NO: 6084046

DOCUMENT-IDENTIFIER: US 6084046 A

TITLE: Copolymer and copolymer composition

DATE-ISSUED: July 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johoji; Hirofumi	Chiba	N/A	N/A	JPX
Takei; Tsuyoshi	Chiba	N/A	N/A	JPX
Nishiyama; Tadaaki	Chiba	N/A	N/A	JPX

US-CL-CURRENT: 526/339, 524/574, 526/126, 526/127, 526/132, 526/133, 526/134,  
526/153, 526/160, 526/170, 526/250, 526/295, 526/308, 526/309, 526/905

## ABSTRACT:

A random copolymer comprising ethylene, an .alpha.-olefin and a branched conjugated polyvalent olefin, wherein (i) ethylene, the .alpha.-olefin and an iodine value respectively satisfy the following inequalities: 0 25 Claims, 0 Drawing figures Exemplary Claim Number: 1,3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw Desc](#) | [Image](#)**[2] 2. Document ID: US 5900393 A**

L8: Entry 2 of 29

File: USPT

May 4, 1999

US-PAT-NO: 5900393

DOCUMENT-IDENTIFIER: US 5900393 A

TITLE: Scalp care products containing anti itching /anti irritant agents

DATE-ISSUED: May 4, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ramachandran; Pallassana	Robbinsville	NJ	N/A	N/A Narayanier
Robbins; Clarence Ralph	Dayton	NJ	N/A	N/A
Patel; Amrit				
Manilal				

US-CL-CURRENT: 510/124; 424/70\_19, 424/70\_21, 424/70\_24, 424/70\_27, 510/122,  
510/125, 510/127, 510/131, 510/137, 510/138, 510/159, 510/386, 510/500,  
510/501, 510/504, 514/385, 514/396, 514/852

## ABSTRACT:

Mild aqueous detergent, e.g., shampoo, compositions are disclosed based on a mixture comprising anionic surfactant and amphoteric surfactant, such as betaines, present in the composition at a level of from about 0.75 to 1.25 parts by weight per part by weight of anionic surfactant. The compositions also contain one or a mixture of therapeutic agents such as climbazole or a mixture of climbazole and one or more co-therapeutics such as salicylic acid. The combination of mild surfactant system and therapeutic agent serve to prevent or treat mild skin disorders such as scalp itch and scalp irritation when applied to the scalp as a shampoo. Shampoo compositions also preferably contain one or more conditioning agents and suitable suspending agents.

18 Claims, 0 Drawing figures Exemplary Claim Number: 1

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KWMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 3. Document ID: US 5854246 A

L8: Entry 3 of 29

File: USPT

Dec 29, 1998

US-PAT-NO: 5854246  
 DOCUMENT-IDENTIFIER: US 5854246 A

TITLE: Topical ketoconazole emulsions

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Francois; Marc Karel Jozef	Kalmthout	N/A	N/A	BEX
Snoeckx; Eric Carolus Leonarda	Beerse	N/A	N/A	BEX

US-CL-CURRENT: 514/254.07, 252/399, 514/852, 514/881

ABSTRACT:

The invention concerns stable emulsions comprising ketoconazole having a pH in the range from 6 to 8, characterized in that the emulsions lack sodium sulfite as an antioxidant; process of preparing said emulsions.

7 Claims, 0 Drawing figures Exemplary Claim Number: 1

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">EPOC</a>	<a href="#">Draw. Desc</a>	<a href="#">Image</a>
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4. Document ID: US 5834409 A

L8: Entry 4 of 29

File: USPT

Nov 10, 1998

US-PAT-NO: 5834409

DOCUMENT-IDENTIFIER: US 5834409 A

TITLE: Scalp care products containing anti itching/anti irritant agents

DATE-ISSUED: November 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ramachandran; Pallassana	Robbinsville	NJ	N/A	N/A
				Martinsville NJ N/A N/A
Robbins; Clarence Ralph	Dayton	NJ	N/A	Narayanier
Patel; Amrit				
Manilal				

US-CL-CURRENT: 510/125, 424/59, 424/78.03, 424/78.07, 510/127, 510/131, 510/133, 510/137, 510/138, 510/158, 510/159, 510/500, 514/385, 514/396, 514/846, 514/847, 514/859

ABSTRACT:

Mild aqueous detergent, e.g., shampoo, compositions are disclosed based on a mixture comprising anionic surfactant and amphoteric surfactant, such as betaines, present in the composition at a level of from about 0.75 to 1.25 parts by weight per part by weight of anionic surfactant. The compositions also contain one or a mixture of therapeutic agents such as climbazole or a mixture of climbazole and one or more co-therapeutics such as salicylic acid. The combination of mild surfactant system and therapeutic agent serve to prevent or treat mild skin disorders such as scalp itch and scalp irritation when applied to the scalp as a shampoo. Shampoo compositions also preferably contain one or more conditioning agents and suitable suspending agents.

The invention also provides a method for treating dry skin comprising applying

The invention also provides a method for treating dry skin comprising applying certain of the therapeutic agents to dry skin to promote the natural secretion of sebum.

6 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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5. Document ID: US 5679333 A

L8: Entry 5 of 29 File: USPT Oct 21, 1997

US-PAT-NO: 5679333

DOCUMENT-IDENTIFIER: US 5679333 A

TITLE: Formaldehyde-free tissue preservative compositions

DATE-ISSUED: October 21, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dunphy; Brian William	Timonium	MD	21093	N/A

US-CL-CURRENT: 424/75; 422/28, 422/29, 422/36, 422/5

ABSTRACT:

Formaldehyde-free tissue preservative compositions are useful in the fields of mortuary science and histology. The compositions disinfect and preserve animal (including human) tissues and remains, yet avoid the use of formaldehyde and formalin--potentially hazardous materials that are undergoing increasing regulatory review. A trio of compositions for use in embalming human bodies is disclosed, as is a composition for use in histological preservation.

21 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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6. Document ID: US 5424010 A

L8: Entry 6 of 29 File: USPT Jun 13, 1995

US-PAT-NO: 5424010  
DOCUMENT-IDENTIFIER: US 5424010 A

TITLE: Light duty liquid detergent composition containing  
3-methyl-3-methoxy-butanol

DATE-ISSUED: June 13, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Duliba; Edward P.	Piscataway	NJ	08854	N/A
Bedi; Sat J.	Edison	NJ	08820	N/A

US-CL-CURRENT: 510/419; 510/101, 510/235, 510/237, 510/292, 510/340, 510/342,  
510/429, 510/432, 510/506

ABSTRACT:

The present invention relates to a light duty, liquid hand washing composition which is mild, stable foaming compositions especially effective in cleaning dishware, glasses, flatware, pots, pans, and delicate clothing by hand at ambient wash water temperature, as well as at warm or hot wash water temperatures. The composition comprises from about 20% to about 40% by weight of at least one anionic or nonionic surfactant; from about 0.5 to about 3.5% by weight of an alcohol which is 3-methyl-3-methoxy-butanol; from about 2% to about 8% of at least one hydrotrope; and from about 50% to about 70% water. The composition has a pH in the range of from about 6.0 to about 8.0 and a viscosity in the range of from about 100 cps to about 500 cps.

12 Claims, 3 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw Desc](#) | [Image](#)

7. Document ID: US 5342745 A

L8: Entry 7 of 29

File: USPT

Aug 30, 1994

US-PAT-NO: 5342745  
DOCUMENT-IDENTIFIER: US 5342745 A

TITLE: Light-sensitive silver halide color photographic material

DATE-ISSUED: August 30, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tai; Akiyoshi	Odawara	N/A	N/A	JPX
Takada; Shun	Odawara	N/A	N/A	JPX

US-CL-CURRENT: 430/538; 430/262, 430/263, 430/531, 430/536

ABSTRACT:

Disclosed is a silver halide photographic light-sensitive material comprising a base paper support coated with a hydrophilic polymer as a peeling agent, and having thereon, a polyolefin resin layer, and at least one silver halide emulsion layer, wherein the hydrophilic polymer is coated on the side on which the silver halide emulsion layer is provided, and a peel strength between the base paper support and the polyolefin resin layer is within the range of 30 to 160 g in weight per inch, and a maximum color transmission density is not less than 2.0 when the silver halide light-sensitive material is subjected to a color developing.

13 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw Desc](#) | [Image](#)

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8. Document ID: US 5153174 A

L8: Entry 8 of 29

File: USPT

Oct 6, 1992

US-PAT-NO: 5153174  
DOCUMENT-IDENTIFIER: US 5153174 A

TITLE: Polymer mixtures useful in skin care

DATE-ISSUED: October 6, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Band; Philip A.	Brooklyn	NY	N/A	N/A
Barbone; Arminda G.	Union	NJ	N/A	N/A
Goddard; Errol D.	Haworth	NJ	N/A	N/A
Leshchiner; Adolf	Cresskill	NJ	N/A	N/A
Partain, III; Emmett M.	Bound Brook	NJ	N/A	N/A
Pavlichko; Joseph P.	Helmetta	NJ	N/A	N/A

US-CL-CURRENT: 514/12; 424/401, 424/488, 424/78.02, 424/78.03, 514/2, 514/21,  
514/44, 514/59, 514/776, 514/844, 530/362, 530/363

ABSTRACT:

Binary polymer mixtures of albumin and glycosaminoglycan and ternary polymer mixtures of polyionic polypeptide and high molecular weight and highly charged polyanions are useful for managing skin including wrinkles or other irregularities. Aqueous compositions of the ternary mixtures have pH dependent phase change properties and provide skin activated films.

14 Claims, 8 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw Desc](#) | [Image](#)

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9. Document ID: US 5015560 A

L8: Entry 9 of 29

File: USPT

May 14, 1991

US-PAT-NO: 5015560  
DOCUMENT-IDENTIFIER: US 5015560 A

TITLE: Method of treating photographic waste

DATE-ISSUED: May 14, 1991

INVENTOR INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koboshi; Shigeharu	Sagamihara	N/A	N/A	JPX
Kobayashi; Kazuhiro	Tokyo	N/A	N/A	JPX
Aoki; Syozo	Tokyo	N/A	N/A	JPX
Takabayashi; Naoki	Tokyo	N/A	N/A	JPX

US-CL-CURRENT: 430/398; 210/681, 210/692, 423/25, 430/399, 430/400, 430/432,  
430/444

ABSTRACT:

A method of treating a waste solution resulting from the processing of a photographic material with a working solution is disclosed, wherein at least part of said waste solution is absorbed by a resin capable of absorbing at least 50 times its own weight of a liquid.

18 Claims, 2 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw Desc](#) | [Image](#)

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10. Document ID: US 4933264 A

L8: Entry 10 of 29

File: USPT

Jun 12, 1990

US -PAT -NO: 4933264  
DOCUMENT -IDENTIFIER: US 4933264 A

TITLE: Process for processing a color photographic material

DATE -ISSUED: June 12, 1990

INVENTOR -INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haseler; Helmut	Leverkusen	N/A	N/A	DEX
Meckl; Heinz	Bergisch Gladbach	N/A	N/A	DEX
Tappe; Gustav	Leverkusen	N/A	N/A	DEX

US -CL -CURRENT: 430/372; 430/383, 430/393, 430/418, 430/460, 430/551

ABSTRACT:

In a process for the processing of color photographic silver halide material which has been exposed to form an image by development, bleachfixing, washing or stabilization and drying, the aqueous developer solution being free from benzyl alcohol, the pH value of the bleachfixing solution, which contains an iron(III) complex salt, being below 7 and the bleachfixing solution containing a compound corresponding to general formula (I) ##STR1## in which Z represents the atoms required to complete an optionally further substituted heterocyclic ring and

R.<sup>sup.1</sup> represents hydrogen or an alkali atom,

and a coupler containing an activated methylene group, in which a hydrogen atom is replaced by alkyl, cycloalkyl, aryl or aralkyl and reacts with the oxidation product of the color developer to form colorless reaction products, bleaching can be carried out free from residual silver with a low regeneration level of the bleachfixing bath without any water-insoluble precipitates being formed.

9 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#)

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11. Document ID: US 4867971 A

L8: Entry 11 of 29

File: USPT

Sep 19, 1989

US-PAT-NO: 4867971  
DOCUMENT-IDENTIFIER: US 4867971 A

TITLE: Low pH shampoo containing climbazole

DATE-ISSUED: September 19, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ryan; Joyce	Brightmet	N/A	N/A	GB2
Stansfield; Malcolm	Prestwich	N/A	N/A	GB2

US-CL-CURRENT: 514/399; 514/852

ABSTRACT:

A stable homogeneous liquid antidandruff shampoo comprising about 0.10 to 2.0% by weight of 1-imidazolyl-1-(4-chlorophenoxy)-3,3-dimethylbutan-2-one (Climbazole) solubilized in an aqueous vehicle containing an acidic surfactant system of about pH 4 to pH 5.5 and further comprising a major amount of an anionic surfactant and minor amounts of either a nonionic, cationic, or amphoteric surfactant or a mixture thereof.

21 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Draw. Desc](#) | [Image](#)

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12. Document ID: US 4845017 A

L8: Entry 12 of 29

File: USPT

Jul 4, 1989

US-PAT-NO: 4845017  
DOCUMENT-IDENTIFIER: US 4845017 A

TITLE: Method for processing silver halide color photographic light-sensitive material

DATE-ISSUED: July 4, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kishimoto; Shinzo	Kanagawa	N/A	N/A	JPX
Ohno; Shigeru	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 430/393; 430/430, 430/460, 430/461

ABSTRACT:

A method for processing a silver halide color photographic light-sensitive material by subjecting an exposed silver halide color photographic light-sensitive material to color development, then to bleaching and fixing or then to bleach-fixing, which method comprises using a ferric ion complex salt as a bleaching agent in the bleaching or bleach-fixing and incorporating at least one compound represented by general formula (I) described below or a salt thereof: ##STR1## wherein R.<sup>1</sup> and R.<sup>2</sup> each represents a hydrogen atom, a hydroxy group, a substituted or unsubstituted amino group, a carboxy group, a sulfo group or a substituted or unsubstituted alkyl group; R.<sup>3</sup> and R.<sup>4</sup> each represents a hydrogen atom, a substituted or unsubstituted alkyl group or a substituted or unsubstituted acyl group or R.<sup>3</sup> and R.<sup>4</sup> may be bonded to each other to form a ring; M represents a hydrogen atom, an alkali metal atom or an ammonium group; and n represents an integer of 2 to 5 in a bleaching bath or bleach-fixing bath or in a prebath of the bleaching bath or bleach-fixing bath.

The method of the present invention does not produce poisonous materials which are harmful to the environment and provides an excellent high speed bleaching process without harming other photographic properties.

19 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw. Descr.](#) | [Image](#)

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13. Document ID: US 4791013 A

L8: Entry 13 of 29

File: USPT

Dec 13, 1988

US-PAT-NO: 4791013  
DOCUMENT-IDENTIFIER: US 4791013 A

TITLE: Housing pack for photographic processing solution

DATE-ISSUED: December 13, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koboshi; Shigeharu	Hino	N/A	N/A	JPX
Kobayashi; Kazuhiro	Hino	N/A	N/A	JPX
Miyaoka; Kazuyoshi	Hino	N/A	N/A	JPX
Aoki; Syozo	Hino	N/A	N/A	JPX
Takabayashi; Naoki	Hino	N/A	N/A	JPX

US-CL-CURRENT: 428/35.3; 215/6, 220/530, 222/94, 396/626, 428/35.4, 428/36.6

ABSTRACT:

The present invention provides a container for containing a photographic processing solution which comprises a housing member and a partition member, thereby the container is divided into two chambers of which the first chamber is prepared for containing the photographic processing solution and the second chamber is prepared for collecting the waste solution. One part of the housing member forming the first chamber comprises an oxygen shelter for restraining oxygen permeation therethrough into the first chamber below 20 ml/m.sup.2 /24 hrs. The second chamber has a solution-absorbing material therein for facilitating the collection of the waste solution.

17 Claims, 8 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 4

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw Desc](#) | [Image](#)

14. Document ID: US 4618572 A

L8: Entry 14 of 29

File: USPT

Oct 21, 1986

US-PAT-NO: 4618572  
DOCUMENT-IDENTIFIER: US 4618572 A

TITLE: Silver halide photographic light-sensitive material

DATE-ISSUED: October 21, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mihayashi; Keiji	Kanagawa	N/A	N/A	JPX
Kobayashi; Hidetoshi	Kanagawa	N/A	N/A	JPX
Takada; Shunji	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 430/543; 430/553, 430/555, 430/557, 430/558, 430/598, 430/955

ABSTRACT:

A silver halide photographic light-sensitive material is disclosed, comprising a support having provided thereon at least one silver halide emulsion layer and containing, in a silver halide emulsion layer having an average iodide content of about 8 mol % or more, a compound capable of releasing a fogging agent or a precursor thereof, or of releasing a development accelerator or a precursor thereof upon development in proportion to the amount of developed silver.

19 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn Desc	Image
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15. Document ID: US 4605611 A

L8: Entry 15 of 29

File: USPT

Aug 12, 1986

US-PAT-NO: 4605611  
DOCUMENT-IDENTIFIER: US 4605611 A

TITLE: Method for processing silver halide color photographic material

DATE-ISSUED: August 12, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohno; Shigeru	Kanagawa	N/A	N/A	JPX
Kishimoto; Shinzo	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 430/393, 430/398, 430/400, 430/428, 430/430, 430/460, 430/461,  
544/78, 548/216, 548/221, 548/306.1, 548/312.7, 548/313.7, 548/314.7,  
548/324.5, 548/336.1, 548/338.5, 548/341.5, 548/574

ABSTRACT:

A method for processing a silver halide color photographic material by subjecting a light-exposed silver halide color photographic material to a color development and then subjecting it to bleach processing and fix processing or to blix processing, which comprises performing said bleach processing or blix processing using a bleach bath or a blix bath containing a ferric ion complex salt as a bleaching agent, said bleach bath or blix bath, or a prebath for said bath containing at least one of compounds represented by the following general formula (I) or (II); ##STR1## wherein, X represents a hydrogen atom, ##STR2## Y.sup..crcbar. represents an anion; Q represents an atomic group necessary for forming a quaternary nitrogen-containing unsaturated heterocyclic ring; n represents an integer of 1 to 5; R.sup.1, R.sup.2, R.sup.6 and R.sup.8, which may be the same or different, each represents a hydrogen atom or a lower alkyl group; R.sup.3, R.sup.4 and R.sup.5, which may be the same or different, each represents a substituted or unsubstituted alkyl group or a substituted or unsubstituted aryl group; any two of said R.sup.3, R.sup.4 and R.sup.5 may combine with each other to form a ring; said R.sup.3, R.sup.4 or R.sup.5 and said R.sup.1 or R.sup.2 may combine with each other to form a ring; and R.sup.7 represents --NR.sup.9 R.sup.10 --OR.sup.11, or --SR.sup.11 (wherein, R.sup.9 and R.sup.10, which may be the same or different, each represents a hydrogen atom or a lower alkyl group; R.sup.11 represents an atomic group necessary for forming a ring by combining with R.sup.6 ; and said R.sup.9 or R.sup.10 and said R.sup.6 may combine with each other to form a ring).

The method of the present invention does not produce poisonous materials which are harmful to the environment and provides an excellent high speed bleaching process without harming other photographic properties.

18 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RDMC	Draim Desc	Image
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16. Document ID: US 4596764 A

L8: Entry 16 of 29

File: USPT

Jun 24, 1986

US - PAT - NO: 4596764  
DOCUMENT - IDENTIFIER: US 4596764 A

TITLE: Method of processing image-wise exposed silver halide color photographic material

DATE-ISSUED: June 24, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishimaru; Shingo	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 430/393; 430/428, 430/430, 430/503, 430/505, 430/539, 430/568,  
430/961

ABSTRACT:

A method of processing an image-wise exposed silver halide color photographic material is described, having on a support at least one red-sensitive silver halide emulsion layer, at least one green-sensitive silver halide emulsion layer, and at least one blue-sensitive silver halide emulsion layer, the total amount of silver iodide contained in the light-sensitive silver halides in said light-sensitive silver halide emulsion layers being higher than  $4.0 \times 10^{-3}$  mole/m.<sup>2</sup>, which comprises processing the color photographic material further containing in a protective layer thereof a superfine grain silver halide, having a mean grain size of less than 0.2  $\mu\text{m}$  and having a silver iodide content of less than 3 mole %, in an amount of from 50 to 140 mole % of the total amount of silver iodide contained in the light-sensitive silver halides, by a color development process including a step subjecting the material to a compound represented by formula (I) ##STR1## wherein M represents a hydrogen atom, an alkali metal atom, an alkaline earth metal atom, a quaternary ammonium group, a quaternary phosphonium group, an amidino group, or a group represented by ##STR2## wherein R.<sup>1</sup> and R.<sup>2</sup> each represents a hydrogen atom or an aliphatic residue; and m represents an integer of 2 to 4; or a strong acid salt thereof.

18 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw. Desc](#) | [Image](#)

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17. Document ID: US 4578345 A

L8: Entry 17 of 29

File: USPT

Mar 25, 1986

US-PAT-NO: 4578345  
 DOCUMENT-IDENTIFIER: US 4578345 A

TITLE: Method for processing color photographic light-sensitive material

DATE-ISSUED: March 25, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohno; Shigeru	Kanagawa	N/A	N/A	JPX
Kishimoto; Shinzo	Kanagawa	N/A	N/A	JPX
Ikegawa; Akihiko	Kanagawa	N/A	N/A	JPX
Yagihara; Morio	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 430/393, 430/428, 430/429, 430/430, 430/943

ABSTRACT:

A method for processing a color photographic light-sensitive material by subjecting an exposed silver halide color photographic light-sensitive material to color development processing then to bleaching and fixing or to bleach-fixing, which method comprises using a ferric ion complex salt or a persulfate as a bleaching agent in the bleaching or bleach-fixing and incorporating at least one compound selected from compounds represented by general formula (I) below and a salt thereof in the bleaching bath or the bleach-fixing bath or in a prebath thereof: ##STR1## wherein X represents --COOM, --OH, --SO<sub>3</sub>M, --CONH<sub>2</sub>, --SO<sub>2</sub>NH<sub>2</sub>, --NH<sub>2</sub>, --SH, --CN, --CO<sub>2</sub>R<sup>6</sup>, --SO<sub>2</sub>R<sup>6</sup>, --OR<sup>6</sup>, --NR<sup>6</sup>R<sup>7</sup>, --SR<sup>6</sup>, --SO<sub>3</sub>R<sup>6</sup>, --NHCOR<sup>6</sup>, --NHSO<sub>2</sub>R<sup>6</sup>, --OCOR<sup>6</sup> or --OSO<sub>2</sub>R<sup>6</sup>; Y represents ##STR2## or a hydrogen atom; m and n each represents an integer from 1 to 10; R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup> and R<sup>8</sup> each represents a hydrogen atom or a lower alkyl group; R<sup>3</sup> represents a hydrogen atom, a lower alkyl group, an acyl group or ##STR3## R<sup>6</sup> represents a lower alkyl group; R<sup>9</sup> represents --NR<sup>10</sup>R<sup>11</sup>, --OR<sup>12</sup> or --SR<sup>12</sup>; R<sup>10</sup> and R<sup>11</sup> each represents a hydrogen atom or a lower alkyl group; R<sup>12</sup> represents an atomic group necessary to complete a ring by being connected with R<sup>8</sup>; R<sup>10</sup> or R<sup>11</sup> may be connected with R<sup>8</sup> to form a ring; and M represents a hydrogen atom or a cation. The method of the present invention does not produce toxic materials which are harmful to the environment and provides an excellent high speed bleaching process without harming photographic properties.

24 Claims, 0 Drawing figures Exemplary Claim Number: 1

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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18. Document ID: US 4554242 A

L8: Entry 18 of 29

File: USPT

Nov 19, 1985

US -PAT -NO: 4554242  
DOCUMENT -IDENTIFIER: US 4554242 A

TITLE: Method for processing color photographic light-sensitive material

DATE -ISSUED: November 19, 1985

INVENTOR -INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohno; Shigeru	Kanagawa	N/A	N/A	JPX
Kishimoto; Shinzo	Kanagawa	N/A	N/A	JPX
Yagihara; Morio	Kanagawa	N/A	N/A	JPX

US -CL -CURRENT: 430/393; 430/429, 430/430, 430/460, 430/461

ABSTRACT:

A method for processing a color photographic light-sensitive material by subjecting an exposed silver halide color photographic light-sensitive material to color development, then to bleaching and fixing or then to bleach-fixing, which method comprises using a ferric ion complex salt as a bleaching agent in the bleaching or bleach-fixing and incorporating at least one compound represented by general formula (I) described below or a tautomer thereof: ##STR1## wherein all the symbols are defined in the appended claims, in a bleaching bath or bleach-fixing bath or in a prebath of the bleach-fixing bath. The method of the present invention does not produce poisonous materials which are harmful to the environment and provides an excellent high speed bleaching process without harming other photographic properties.

20 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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19. Document ID: US 4524129 A

L8: Entry 19 of 29

File: USPT

Jun 18, 1985

US-PAT-NO: 4524129  
DOCUMENT-IDENTIFIER: US 4524129 A

TITLE: Method for processing color photographic light-sensitive material

DATE-ISSUED: June 18, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kishimoto; Shinzo	Kanagawa	N/A	N/A	JPX
Ohno; Shigeru	Kanagawa	N/A	N/A	JPX
Tsujikawa; Teruaki	Shiga	N/A	N/A	JPX

US-CL-CURRENT: 430/393, 430/429, 430/430, 430/445, 430/455, 430/460, 430/461

ABSTRACT:

A method for processing a color photographic light-sensitive material by subjecting an exposed silver halide color photographic light-sensitive material to color development processing then to bleaching processing and fixing processing or to bleach-fixing processing, which process comprises using a ferric ion complex salt or a persulfate as a bleaching agent in the bleaching processing or bleach-fixing processing and incorporating a compound represented by the general formula (I) described below or a salt thereof in a bath of the bleaching processing or bleach-fixing processing or in a pre-bath thereof.  
##STR1## wherein R.sup.1 and R.sup.2, which may be the same or different, each represents a hydrogen atom or a lower alkyl group; X represents a --NH.sup.3 R.sup.4 group, a --COOM group, a --SO.sub.3 M group or a hydroxy group; R.sup.3 and R.sup.4, which may be the same or different, each represents a hydrogen atom or a substituted or unsubstituted alkyl group or R.sup.3 and R.sup.4 are bonded to each other to form a ring; M represents a cation; and n represents an integer of 1 to 5.

The method of the present invention does not produce poisonous materials which are harmful to the environment and provides an excellent high speed bleaching process without harming other photographic properties.

20 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMMC](#) | [Drawn Desc](#) | [Image](#)

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20. Document ID: US 4508817 A

L8: Entry 20 of 29

File: USPT

Apr 2, 1985

US-PAT-NO: 4508817  
DOCUMENT-IDENTIFIER: US 4508817 A

TITLE: Method of color photographic processing

DATE-ISSUED: April 2, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohno; Shigeru	Kanagawa	N/A	N/A	JPX
Kishimoto; Shinzo	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 430/393; 430/429, 430/430, 430/460, 430/461, 546/256, 546/270.1,  
546/270.4, 548/146, 548/193, 548/257

ABSTRACT:

A method of color photographic processing is disclosed. The method comprises color developing an exposed silver halide color photographic light-sensitive material and thereafter carrying out a bleach treatment and a fix treatment or a bleach-fix treatment, wherein the bleaching agent used for the bleach treatment or the bleach-fix treatment is a ferric ion complex salt or a persulfate and the bleaching bath or the bleach-fixing bath or a pre-bath therefor contains at least one compound represented by the following formula (I): ##STR1## wherein all the symbols are defined in the specification. A prevention of pollution problems and an acceleration of bleaching action without deterioration of photographic properties can be attained by this method.

10 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw. Desc](#) | [Image](#)

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L8: Entry 21 of 29

File: USPT

Mar 19, 1985

US-PAT-NO: 4506007

DOCUMENT-IDENTIFIER: US 4506007 A

TITLE: Method for processing color photographic materials

DATE-ISSUED: March 19, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakajima; Junya	Kanagawa	N/A	N/A	JPX
Itoh; Isamu	Kanagawa	N/A	N/A	JPX
Yamamuro; Kiyohiko	Kanagawa	N/A	N/A	JPX
Ogawa; Eiiti	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 430/393; 430/430

## ABSTRACT:

A method for processing an exposed silver halide color photographic material by development and desilvering is described, which comprises the steps of (1) treating said material in a color developing bath, (2) treating the developed material in a bath having incorporated therein at least one compound of formula (I) or a salt thereof: ##STR1## and (3) treating said material in a bath having bleaching or bleach-fixing ability.

9 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw. Desc](#) | [Image](#)**L 22. Document ID: US 4481290 A**

L8: Entry 22 of 29

File: USPT

Nov 6, 1984

US-PAT-NO: 4481290

DOCUMENT-IDENTIFIER: US 4481290 A

TITLE: Color photographic silver halide light-sensitive materials

DATE-ISSUED: November 6, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kishimoto; Shinzo	Kanagawa	N/A	N/A	JPX
Yamamuro; Kiyohiko	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 430/543; 430/393, 430/428, 430/430, 430/510, 430/523, 430/566

ABSTRACT:

A color photographic silver halide light-sensitive material is described, containing at least one member of the compounds represented by the general formula (I-a) and (I-b) in at least one layer thereof: ##STR1## (wherein all the symbols are defined in the appended claims). This color light-sensitive material can be subjected to rapid photographic processing; i.e., the compounds of the general formula (I-a) and (I-b) act as bleach accelerators, making it possible to perform rapid photographic processing without exerting adverse influences on photographic characteristics.

30 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw. Desc](#) | [Image](#)

23. Document ID: US 4451385 A

L8: Entry 23 of 29

File: USPT

May 29, 1984

US-PAT-NO: 4451385

DOCUMENT-IDENTIFIER: US 4451385 A

TITLE: Agent for reducing detergent irritation to skin and eyes

DATE-ISSUED: May 29, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tavss; Edward A.	Kendall Park	NJ	N/A	N/A
Eigen; Edward	East Brunswick	NJ	N/A	N/A
Clark; Kenneth F.	Hazlet	NJ	N/A	N/A

US-CL-CURRENT: 510/426; 424/70\_15, 424/70\_24, 510/123, 510/125, 510/237, 510/432, 510/490, 514/773, 530/356, 530/416, 530/417

ABSTRACT:

A liquid detergent composition containing an anionic surfactant and a minor amount of a water-soluble, positively charged, partially hydrolyzed, protein fraction containing a high concentration of basic amino acids, having an isoionic point greater than 7 and a Bloom gel value of zero which counters the irritation caused by said anionic surfactant without reducing its foaming and detergency properties.

10 Claims, 0 Drawing figures Exemplary Claim Number: 1,2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

24. Document ID: US 4446225 A

L8: Entry 24 of 29

File: USPT

May 1, 1984

US-PAT-NO: 4446225

DOCUMENT-IDENTIFIER: US 4446225 A

TITLE: Method for processing color photographic light-sensitive material

DATE-ISSUED: May 1, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kishimoto; Shinzo	Kanagawa	N/A	N/A	JPX
Yamamuro; Kiyohiko	Kanagawa	N/A	N/A	JPX

US-CL-CURRENT: 430/393; 430/430, 430/460, 430/461

ABSTRACT:

A method for processing a color photographic light-sensitive material is disclosed. The process involves providing an exposed silver halide color photographic light-sensitive material and subjecting the material to a color development processing. During the processing after development processing the material is brought into contact with a compound represented by the general formulae (I-a) or (I-b) in a bath of a bleaching or bleach-fixing processing or in a pre-bath thereof. ##STR1## wherein A represents an amino group which is optionally substituted or a nitrogen-containing hetero ring residue which may be optionally substituted, R.<sup>1</sup> represents a hydrogen atom or a carboxy group, R.<sup>2</sup> represents a monovalent metal atom, an ammonium group, an optionally substituted alkyl group or a group represented by ##STR2## R.<sup>3</sup> and R.<sup>4</sup> each represents a hydrogen atom or an alkyl group which may be substituted by a hydroxy group, an alkoxy group, a halogen atom, a carboxyl group, --SO<sub>2</sub>H, --SO<sub>3</sub>H, or a group represented by A described above, m represents 1 or 2, and n represents an integer of 2 to 4. The method of the invention does not produce poisonous materials which are harmful to the environment and provides an excellent high speed bleaching process without harming other photographic properties.

6 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

25. Document ID: US 4374125 A

L8: Entry 25 of 29

File: USPT

Feb 15, 1983

US-PAT-NO: 4374125  
DOCUMENT-IDENTIFIER: US 4374125 A

TITLE: Hair moisturizing compositions

DATE-ISSUED: February 15, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Newell; Gerald P.	Hanover Park	IL	N/A	N/A

US-CL-CURRENT: 424/70.14; 424/70.15, 424/70.24, 514/773

ABSTRACT:

An aqueous hair treatment composition for restoring the proper moisture level in initially moisture deficient hair and maintaining the proper moisture level in hair initially having a normal moisture content comprising from about 0.01 to about 1 weight percent of sodium-2-pyrrolidone-5-carboxylate, from about 0.05 to about 5 weight percent of glycerin, and from about 0.05 to about 5.0 weight percent of protein derived from a collagenous source.

9 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw. Desc](#) | [Image](#)

26. Document ID: US 4297436 A

L8: Entry 26 of 29

File: USPT

Oct 27, 1981

US-PAT-NO: 4297436

DOCUMENT-IDENTIFIER: US 4297436 A

TITLE: Method for producing a multilayer printing plate

DATE-ISSUED: October 27, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kubotera; Kikuo	Asaka	N/A	N/A	JPX
Sato; Masamichi	Asaka	N/A	N/A	JPX
Kashiwabara; Akira	Asaka	N/A	N/A	JPX
Sato; Kotaro	Asaka	N/A	N/A	JPX

US-CL-CURRENT: 430/319; 101/454, 101/458, 101/459, 216/66, 430/299, 430/302,  
430/323

ABSTRACT:

A method for producing a multilayer printing plate comprising image-wise exposing and developing a light-sensitive printing plate material which comprises a support having an oleophilic surface having a hydrophilic metal layer thereon, the hydrophilic metal layer having thereon at least one silver halide emulsion layer either directly or on at least one subbing layer on the hydrophilic metal layer, to form a silver image resist image corresponding to the image-wise exposure by subjecting the printing plate material to a process including baking, removing the hydrophilic metal layer at non-resist image areas to uncover the oleophilic surface thereunder, and removing the resist image, or a method for producing a multilayer printing plate comprising image-wise exposing and developing a light-sensitive printing plate material which comprises a support having a hydrophilic surface having thereon at least one silver halide emulsion layer either directly or on at least one subbing layer on the hydrophilic surface to form a silver resist image corresponding to

layer on the hydrophilic surface to form a silver resist image corresponding to the image-wise exposure by subjecting the printing plate material to a process including baking, providing an oleophilic metal layer on the hydrophilic surface at the non-resist image area, and removing the resist image.

55 Claims, 6 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw. Desc](#) | [Image](#)

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## 27. Document ID: US 4220168 A

L8: Entry 27 of 29

File: USPT

Sep 2, 1980

US-PAT-NO: 4220168

DOCUMENT-IDENTIFIER: US 4220168 A

TITLE: Method of moisturizing and maintaining normal moisture level in hair having a normal moisture content

DATE-ISSUED: September 2, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Newell; Gerald P.	Hanover Park	IL	N/A	N/A

US-CL-CURRENT: 132/203; 424/70.14

ABSTRACT:

A method of moisturizing and maintaining the normal moisture level in hair initially having a normal moisture content comprising the steps of: (1) shampooing the hair with a moisture stabilizing shampoo; (2) conditioning the hair with a moisture stabilizing conditioner; and (3) thereafter applying a moisture control styling lotion, said shampoo, conditioner and styling lotion each containing from 0.01 to 1.0 weight percent of 2-pyrrolidone-5-carboxylic acid or a salt thereof, from 0.01 to 5.0 weight percent glycerin and from 0.01 to 5.0 weight percent of protein derived from a collagenous source.

5 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw. Desc](#) | [Image](#)

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## 28. Document ID: US 4220167 A

L8: Entry 28 of 29

File: USPT

Sep 2, 1980

US-PAT-NO: 4220167  
DOCUMENT-IDENTIFIER: US 4220167 A

TITLE: Method of restoring normal moisture level to hair with slight to moderate moisture deficiency

DATE-ISSUED: September 2, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Newell, Gerald P.	Hanover Park	IL	N/A	N/A

US-CL-CURRENT: 132/209; 424/70.14

ABSTRACT:

A method of restoring the normal moisture level in hair initially having a slight to moderate moisture deficiency comprising the steps of: (1) shampooing the hair with a moisture stabilizing shampoo; (2) conditioning the shampooed hair with a moisture stabilizing conditioner; (3) thereafter applying a moisture control styling lotion; (4) at least once a month applying a deep heat treatment conditioner to said freshly shampooed hair; and (5) at least once a month applying a moisture gain intensive conditioner for at least 15 minutes to said hair; each of said shampoos, conditioners and lotions comprising from about 0.01 to about 1.0 weight percent of sodium-2-pyrrolidone-5-carboxylate, from about 0.1 to about 5.0 weight percent of glycerin and from about 0.01 to about 5.0 weight percent of protein derived from a collagenous source.

8 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [RWMIC](#) | [Drawn Descr](#) | [Image](#)

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29. Document ID: US 4220166 A

L8: Entry 29 of 29

File: USPT

Sep 2, 1980

US-PAT-NO: 4220166

DOCUMENT-IDENTIFIER: US 4220166 A

TITLE: Method of restoring normal moisture level to hair with severe moisture deficiency

DATE-ISSUED: September 2, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Newell, Gerald P.	Hanover Park	IL	N/A	N/A

US-CL-CURRENT: 132/209

ABSTRACT:

A method of restoring the normal moisture level to hair initially having a severe moisture deficiency comprising the steps of: (1) shampooing the hair with a moisture stabilizing shampoo; (2) at least once a week, applying a moisture gain intensive conditioner to freshly shampooed hair; (3) at least once a week, applying a moisture gain deep heat treatment to said freshly shampooed hair; (4) conditioning the shampooed hair with a moisture stabilizing composition when said deep heat treatment or said moisture gain intensive treatment is not used; and (5) thereafter applying a moisture control styling lotion; each of said shampoos, conditioners and lotions comprising from about 0.01 to about 1.0 weight percent of sodium-2-pyrrolidone-5-carboxylate, from about 0.05 to about 5.0 weight percent of glycerin and from about 0.05 to about 5.0 weight percent of glycerin and from about 0.05 to about 5.0 weight percent of protein derived from a collagenous source.

4 Claims, 0 Drawing figures Exemplary Claim Number: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [RMD](#) | [Draw Desc](#) | [Image](#)

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